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	CLAIMS :	

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A reinforcing structure of a fuel tank having a first and an opposing

2 second wall defining a fuel chamber, the reinforcing structure comprising:

a first indentation carried unitarily by the first wall and extending into the

4 fuel chamber, the first indentation having a bottom portion engaged to the opposing

5 second wall; and

a stress relief feature disposed within the chamber, the stress relief feature

having an engagement area being annular in shape and thus formed by the engagement of

the bottom portion to the opposing second wall.

2.

The reinforcing structure set forth in claim 1 comprising a second

indentation carried unitarily by the second wall, the second indentation having a bottom

portion wherein the stress relief feature is formed between the bottom portions of the

4 first and second indentations.

3.

The reinforcing structure set forth in claim 2, wherein the bottom portions of the

first and second indentations enclosed by the annular engagement area form a void.

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The reinforcing structure set forth in claim 3, wherein the stress relief
feature has a radial opening communicating between the void and the chamber and for
providing a starting point for a bursting tear through the annular engagement area when a
predetermined internal or external pressure is exceeded.

5.

The reinforcing structure set forth in claim 4 wherein the circumferential orientation of the opening is dependent upon the direction of adverse forces exerted upon the tank.

6.

The reinforcing structure set forth in claim 3, wherein the bottom portions of the first and second indentations have a substantially constant wall thickness, and wherein the engagement area is seventy-five percent or less than the cross section area of either adjacent indentation.

7.

The reinforcing structure set forth in claim 6, wherein the fuel tank is a multi-layered structure of plastic material and is formed by a blow mold process.

	1	A fuel tank comprising:
	2	a first wall;
	3	a second wall opposed to the first wall;
	4	a chamber defined between the first and second walls; and
	5	a reinforcing structure having a first indentation projecting into the
7	6	chamber from the first wall, a second indentation projecting into the chamber from the
۳F	. 7	second wall, a stress relief feature disposed within the chamber, and wherein a bottom
nati time tare tana ii ii tine tand	8	portion of the first indentation is engaged to a bottom portion of the second indentation.
Service Company	φ	9.
1 12 1 12 1	1	The fuel tank set forth in claim 8 wherein the first and second indentations
Ann Sad H' H' T	2	are unitary to the respective first and second walls. 10.
	1	The fuel tank set forth in claim 9 wherein the stress relief feature is
	2	disposed between the bottom portions of the first and second indentations and wherein
	3	the bottom portions are engaged directly by an engagement area of the stress relief
	4	feature.
		11.
	1	The fuel tank set forth in claim 10 wherein the engagement area is welded
Э	2	and annular in shape, and wherein the bottom portions disposed radially inward from the

engagement area form a substantial spherical void.

plastic.

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1	The fuel tank set forth in claim 11 wherein the stress relief feature has a
2	radial opening communicating between the chamber and the void.
	13.
1	The fuel tank set forth in claim 12 wherein the radial opening and the
2	engagement area are disposed along an imaginary plane.
	14.
1	The fuel tank set forth in claim 9 wherein the stress relief feature has an
2	alangated atmag relief has dismaged within the showber and anaexed between the first
2	elongated stress relief bar disposed within the chamber and engaged between the first
3	and second indentations at opposing ends.
	15.
1	The fuel tank set forth in claim 14 wherein the stress relief feature has a
2	groove carried transversely by the bar and for providing a starting point for a bursting
3	tear through the bar when a predetermined internal or external pressure is exceeded.
	16.
1	The fuel tank set forth in claim 15 wherein the stress relief bar is made of

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1	A fuel tank comprising:
2	a first wall;
3	a second wall opposed to the first wall;
4 .	a first indentation projecting into the chamber from the first wall;
5	a second indentation projecting into the chamber from the second wall;
6	a hollow protrusion projecting acutely via a juncture into the chamber
7	from a distal end portion of the second indentation; and
. 8	wherein the hollow protrusion engages the first indentation at a distal end.
	18.
1	The fuel tank set forth in claim 17 comprising:
2	the second wall having an interior surface exposed to the chamber and an
3	exterior surface;
4	a plug engaged sealably to the exterior surface of the second wall at the
5	second indentation; and
6	a secondary chamber defined by the second indentation and carried
7	between the exterior surface of the second wall and the plug.

19.

The fuel tank set forth in claim 18 wherein the smallest wall thickness defined between the interior and exterior surfaces of the second wall is located at the juncture of the second indentation, and wherein the cross section area of the second indentation at the juncture is smaller than the area of the distal end of the protrusion.

The fuel tanks set forth in claim 19 wherein the distal end is square in

2 shape.

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